



Summer Undergraduate Research Fellowship

NIST
National Institute of
Standards and Technology

The Future of ISD

ISD's Preparatory Research For the Onset of
Millennial Researchers



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My Summer Projects

1. Millennial Survey
2. Interactive E-Journals
3. H-Index (Hirsch Number)



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Millennial Survey Background



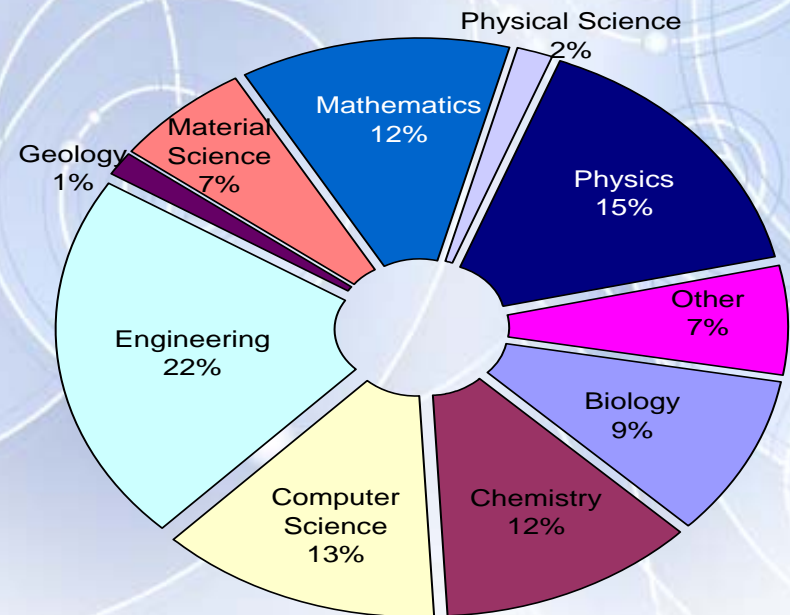
Millennial Survey

The Survey

- Created by a 2006 SURF student Andrew Schaumberg (University of Wisconsin)
- Participants: SURF student
- Purpose: to assess the researching needs for the millennial generation

Millennial Survey Participation

99 of 135 students
responded (73.3%)



Participation By Major

Millennial Survey

Top 3 Valued Aspects of Gathering Information

1. Gathering trustworthy sources
2. Gathering information quickly
3. Gathering recommended sources

Put little value on gathering information for in
library use

Millennial Survey Value vs. Usage

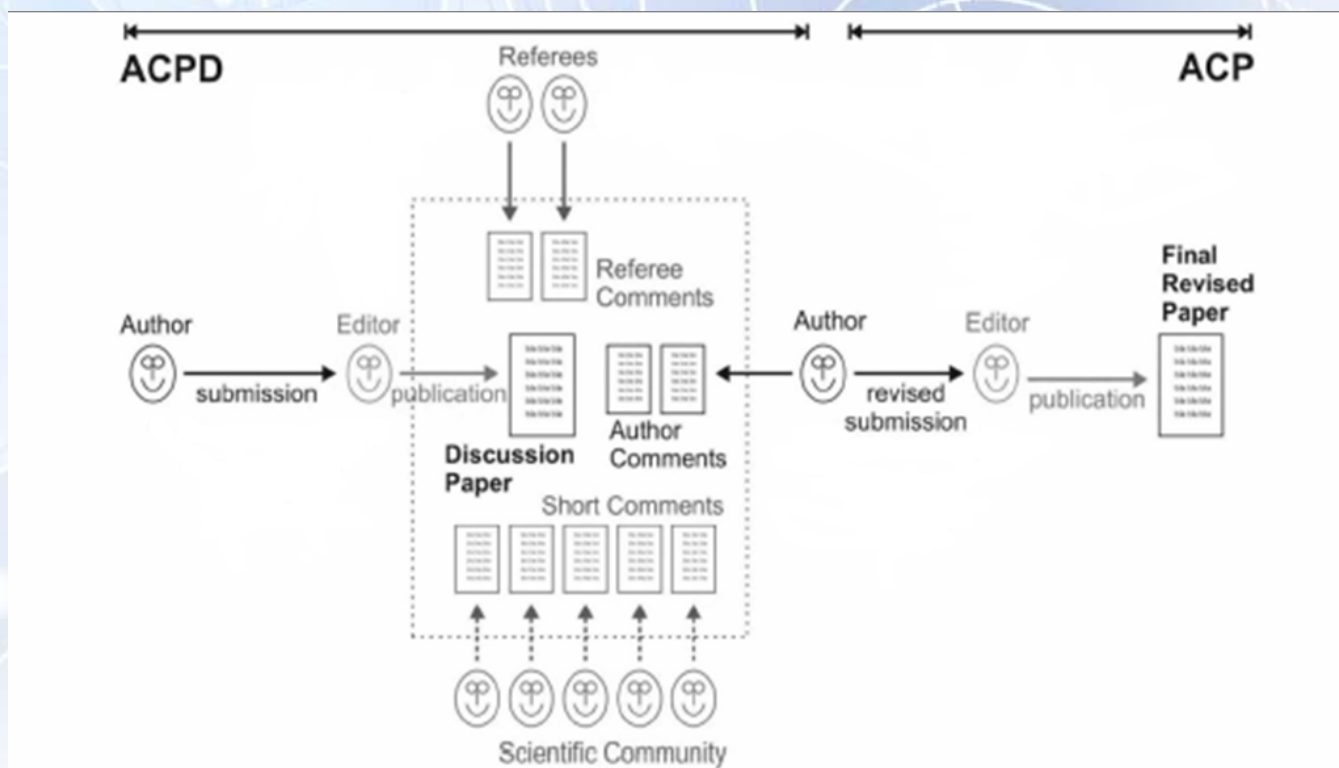
5 MOST VALUED SOURCES	5 MOST USED SOURCES
1. Printed book, textbook, or manual	1. Internet Search Engine
2. Professional (expert, librarian, coworker)	2. Printed book, textbook, or manual
3. Searchable online database/archive	3. Searchable online database/archive
4. Online encyclopedia, dictionary, or thesaurus	4. Online periodical (journal, magazine, news)
5. Internet Search Engine	5. Professional (expert, librarian, coworker)

TOP 5 VALUABLE LIBRARY SERVICES
1. Electronic information sources (e-books, scans, online journals)
2. Internet access
3. Individual work or study area with computer, desk, and chair
4. Capability to search across databases
5. The majority of library information sources available online

Interactive Journals

- Published after a collaborative, open peer review process
- Allows interactive commenting before and after publication

Interactive Journals Atmospheric Chemistry & Physics





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Interactive Journals *ISDirections*

Following the ideas of
washingtonpost.com

Your Comments On...

Broader Privilege Claimed In Firings

Bush administration officials unveiled a bold new assertion of executive privilege in the firing of nine U.S. attorneys, saying that the Justice Department's charges initiated by Congress against White House officials once the president's attorney general is fired.

- By Dan Eggen and Amy Goldstein

Comments

Ad Join



thrh wrote:

It's called "martial law," folks! There will be blood in the streets! W

7/20/2007 12:24:21 AM

Ad Rep

Post a Comment

Ad

Join the discussion. Sponsored by Cisco. welcome to the human network. **cisco**

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H-Index

Quantifying Scientific Productivity

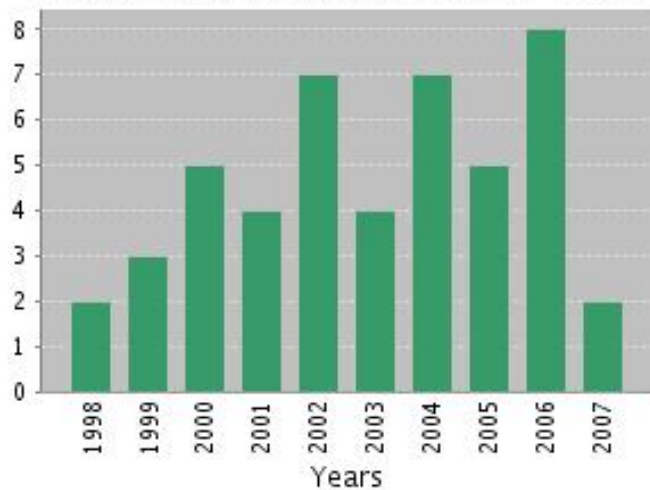
Citation Report

[<< Return to previous Summary page](#)

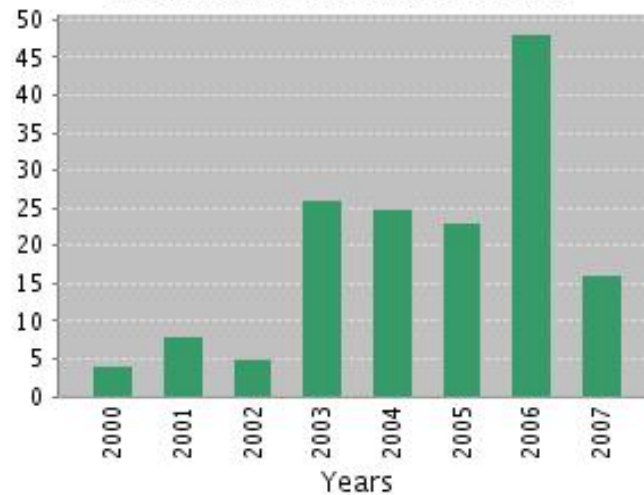
AU=(a* williams)

DocType=All document types; Language=All languages; Database=SCI-EXPANDED; Timespan=1945-2007

Published Items in Each Year



Citations in Each Year



Results found: 47

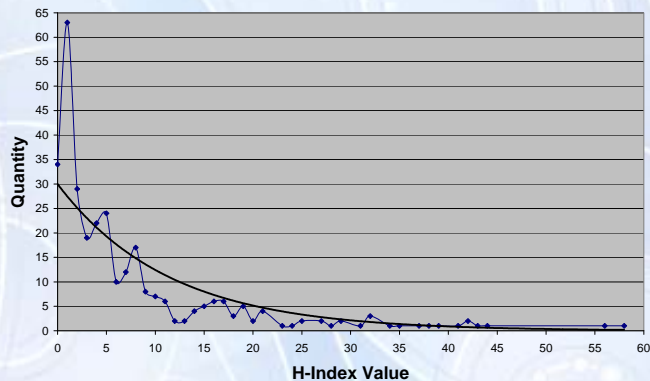
Sum of the Times Cited **i** : 155

Average Citations per Item **i** : 3.30

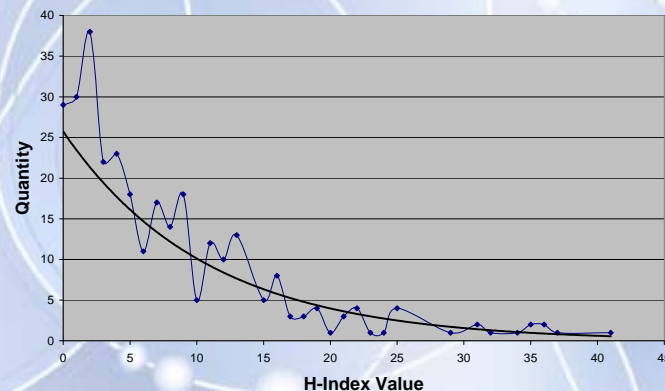
h-index **i** : 7

H-Index Results per Lab

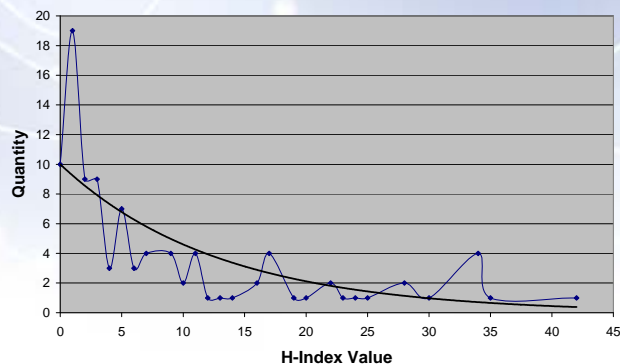
H-Index Distribution for Lab 1



H-Index Distribution for Lab 2



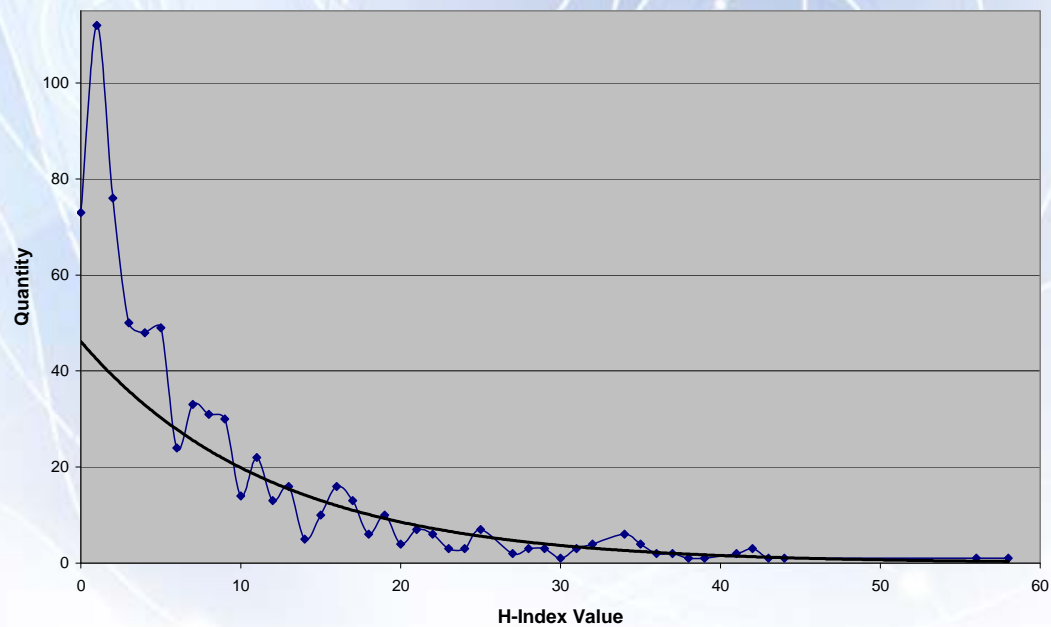
H-Index Distribution for Lab 3



H-Index

Overall H-Index Distribution

H-Index Distribution of All Completed Labs



H-Index

Criticisms

- Bounded by number of publications
- Review articles more cited than original articles
- Errors in manual citation sources
- Can only relay numbers, not the wider effects of their work.

What Else Did I Learn?

- How to write a scientific paper/proposal
- Learned more about publishing and analysis
- Independent statistical analysis